# **Model Question Paper**

# For Kashmir Division 2010 Regular Exam Only

Subject

**GEOLOGY** 

# Maximum Marks --- 60

Time Allowed – 3 Hours (Fifteen Minutes Extra to read the question paper)

# Do questions from Part A or Part B or from both Part A and B Part of maximum 60 marks as per your preparation. Part A

Note: All questions are compulsory. Write their answers in your Answer-book.

## (Long Answer Type Questions)

1. Discuss various causes of Earthquakes alongwith their Geological effects with special reference to recent earthquake in parts of J&K State.

Or

Define Volcano. Draw its diagram. Write an essay on various Volcanic products.

2. Give a detailed account of Pyroclastic materials thrown out by a Volcano.

Or

Define Seismology. Give Richter scale of Earthquake intensity in detail.

3. Name the various methods for the determination of age of the Earth. Describe any one of the Radioactive methods.

P. T. O.

5

#### Or

On the basis of Seismological studies, give a brief description of Interior of the 5 Earth. 4. Describe in detail Tidal hypothesis of origin of the Earth. OrExplain the Nebular Hypothesis regarding the origin of the Earth. Also add a note on its criticism. 5. Describe the Morphological features of typical Lamellibranchia. Draw its diagram and also lebel its parts. OrExplain with a neat sketch, the Morphology of Trilobita. (Short Answer Type Questions) 6. Write short description of Focus and Epicentre with the help of neat diagram. 3 7. Write down a brief description of Volcanic belts of the world. 8./Describe Schmidt's Hypothesis in brief. 9. Explain, how rate of Sedimentation is used for the determination of Age of the 3 3 ilumon dath Devoricin Earth. 10. Give the Stratigraphic range and Morphological features of Calymene. 11. Write a brief note on Head shield of Trilobita. 12. Define in brief three layers of Interior of the Earth. S/2045

# (Very Short Answer Type Questions)

13. The following very short answer type questions of two marks, each may be answere in a few words or a few sentences or as may be required.  (a) Distinguish between Acid Lava and Basic Lava.	
Write down briefly the drawbacks of Tidal Hypothesis.	
( (c) Give a brief note on Half-life period. What is half-life period of C <sub>14</sub> ?	
(d) Give the morphological features of Paradoxides. \$730 \( \frac{1}{2} \).	
(Objective Type Questions)	
14. Choose the correct/most appropriate answer and write it in your Answer-book :	
(i) The Core of the Earth is composed of	
A. Na, K, Na and K	
B. Mg and Si	
C. Nickel and Iron	
D. None of these.	
(ii) Volcanoes which show volcanic activity are called	
A. Extinct volcanoes	
B. Active volcanoes	
C. Dormant volcanoes	
D. Volcanic Bombs.	
(iii) The Science which deals with Earthquakes, is called	
(A) Seismology	
B. Mineralogy	
C. Petrology	

D. Hydrology.

(iv) Tid	lal Hypothesis was first proposed by	
A.	Immanuel Kant	
(B)	Jeans and Jeffreys	
C.	Schmidt's	
D.	Lyttleton.	1
(v) Ag	enostus is a	
A.	Lamellibranch	
В.	Gastropod	
С.	Brachiopod	
- (B)	Trilobite.	1
(vi) Br	rachiopoda have	
- (A.	two valves	
В.	. only one valve	
С.	. three valves	
D	. four valves.	]

900

гу

5

0.

S/2045

['

### Part B

Note: Attempt all questions.

## (Long Answer Type Questions)

1. Give the Physical characters, Chemical composition and mode of occurrence of Monoclinic pyroxene group of Minerals.

Or

Describe in detail Amphibole group of Minerals.

5

2. Explain the Tetragonal system. Give its symmetry and detailed account of any three forms.

Or

Give the elements of Symmetry of normal class of Cubic system. Mention in detail any three forms of this system.

3. Describe in detail Copper deposits of India.

Or

Give the Physical properties, Chemical composition and uses of Ores of Aluminium in India.

	(2)	
4.	Define Calorific value. Explain in detail the distribution of Coal in India.	
	Or	
	Describe in detail the Mineral wealth of Jammu and Kashmir State. 5	
	Define in detail the term Fault. Explain in detail its three types citing examples with special reference to J&K State.	63
	Or	
	What is Fold? Explain in detail with suitable diagrams any three kinds of Fold citing examples from India.	
	(Short Answer Type Questions)	
6.	Give the Physical characters of the following:	
	(i) Orthoclase	
	(ii) Albite	
	(iii) Microcline.	}
7.	Write the elements of Symmetry of normal class of Hexagonal system.	3
8.	Explain in brief the uses of Iron and Manganese.	3
9.	Describe in brief the distribution of Petroleum in India.	3
10.	Explain in concise form Miller system of Indices.	3
11.	Give the criteria of recognition of Folds in the field.	3
12.	Describe the importance of Unconformities.	3
	(Very Short Answer Type Questions)	
13.	The following very short answer type questions of two marks, each may be answered in a few words or a few sentences or as may be required.	d
	(a) Discuss in brief Ore and Gangue Minerals.	2

S/2046

V

5

(3)
(b) Define Joints. Name various types of Joints.
(c) Name any four Coal localities of J&K State.
(d) Name any two Minerals which crystalises in Cubic system.

# (Objective Type Questions)

- 14. Choose the correct/most appropriate answer and write it in your Answer-book
  - (i) The hardness of Fluorite is
    - A. 2
    - B. '3
    - C. 4
    - D. 5.
  - (ii) Sapphire is found in
    - A. Zanskar
    - B. Gulmarg
    - C. Nagrota
    - D. Padder.
  - (iii) A Crystal of a Cube has
    - A. 8 faces
    - B. 6 faces
    - C. 12 faces
    - D. 9 faces.

S/2046

P. T.

		/
(iv)	In	which year the Oil exploration started in Assam?
	A.	1625
	В.	1725
	С.	1825
	D.	1925.
(v)	Oct	ahedron has
	A.	6 faces
	В.	7 faces
3.	C.	8 faces
	D.	9 faces.
(vi)	Gol	d as placer deposits is found in
	A.	Poonch
	В.	Kathua
	С.	Ladakh
	D.	Udhampur.

S/2046